

ISSUE MEMORANDUM



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DALE E. BONNER, Secretary

FROM:

J. A. FARROW, Commissioner

California Highway Patrol

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Email: jfarrow@chp.ca.gov

PREPARED BY:

K. P. GREEN, Assistant Commissioner, Staff

California Highway Patrol

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Email: kgreen@chp.ca.gov

DATE:

April 18, 2008

SUBJECT:

QUARTERLY CALIFORNIA HIGHWAY PATROL

ENHANCED RADIO SYSTEM (CHPERS) STATUS REPORT

Check all applicable boxes:				
	Request for Approval		Non-Competitively Bid Contract Justification	
	Request for Secretary's Signature		Other Procurement-Related Document	
\boxtimes	Submittal for Secretary's Information		Feasibility Study Report/Special Project Report	
	Request for Discussion		Rulemaking/Regulation Document	
\boxtimes	Response to Secretary's/Agency Request		Audit/Investigation-Related Document	
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AGENCY REFERENCE NUMBER: 2008 IM 2

TIME FACTOR:

¹ Either: (1) Notice of Contract to Award.

⁽²⁾ CMAS contract, MSA contract or Purchase Order exceeding departmental delegated authority.

SUMMARY:

The California Highway Patrol Enhanced Radio System (CHPERS) project will provide for the development and implementation of a statewide radio communications system which will support the CHP's primary mission, as well as provide an improved state-of-the-art radio system vital for officer safety and the public safety needs of the citizens of California. This quarterly report will address the current status of the CHPERS project for the quarter ending March 2008.

Project activities to separate the tactical frequency are progressing according to plan. All site surveys have been completed for valley contained and Borden Division. Department of General Services (DGS) engineers are working in conjunction with the CHPERS Site Preparation Team to draft site solution documents for valley and Central Divisions. A Capital Outlay Budget Change Proposal (COBCP) was submitted for 20 sites in valley Northern, and Coastal Divisions. CHP is unsure whether this process is necessary for CHPERS sites and is researching other options.

The Consolidated Patrol Vehicle Environment (CPVE) Request For Proposal (RFP) was released to the vendor community on September 24, 2007. Two rounds of draft proposals were received and confidential discussions were held with vendors. The estimated date for contract award is June 2008.

CHPERS Project Scheduled Meetings

During this quarter, meetings have continued with the CHP, DGS/Telecommunications Division (TD), and DGS/Real Estate Services Division (RESD) to discuss statewide remote site evaluations and potential frequency acquisitions for the CHP. In addition, the CHPERS Site Preparation Team has been meeting with DGS engineers to draft individual site solution documents for

Risk Assessment and Mitigation Consultant (RAM)

The Risk Assessment and Mitigation (RAM) consultant provides assistance with the development and implementation of the statewide radio system for CHPERS, the CPVE, and Radio Communications Interoperability Project. The consultant also evaluates and ensures the project meets implementation goals including, but not limited to: the accuracy in the estimation; design; construction; execution; and management of the plan. Currently, the RAM consultant has been assisting with evaluation of standard vault and tower specifications, reviewing the statewide system design, and assisting with radio site surveys in Inland and Border Divisions.

Multiple Radio Systems Project Manager Consultant (MRS PM)

MRS PM continues to provide project management expertise according to the standard methodology of the Project Management Institution. The project manager is also responsible for quarterly reporting and deliverable tracking.

Radio Vault Site Evaluations and Development

The DGS engineers are in the proces	s of drafting site plans for the 44 Valley and Central Division
sites while CHPERS team members	complete necessary site preparation activities. As soon as the site
plans for the Valley and Central Divi	sion ates have been completed, DGS engineers will begin to
draft plans for the Worthern and C	oastal Division sites.

To date, a total of 20 sites in the three Divisions have been identified as requiring major reconstruction. A COBCP was submitted for the construction of the CHP is unsure whether this process is necessary for these construction. An issue paper has been prepared to address this concern as the Capital Outlay process will add an additional year to the project time line.

Project Resources

CHP has been working with DGS/TD and DGS/RESD to perform the CHPERS project activities. Due to the large scope of the CHPERS project, DGS does not have sufficient resources to address project activities. CHP along with DGS/TD and DGS/RESD are exploring the possibilities to contract for services to meet project time lines. CHP will be working with DGS Procurement Division to obtain the necessary contracted services.

Consolidated Patrol Vehicle Environment (CPVE)

The CPVE is a cost effective solution to improve the efficiency, effectiveness, and safety of the patrol officer's vehicle work environment. The project is a vehicle tactical network designed to consolidate multiple mobile radios in the trunk of the patrol vehicle, whereby all radios and emergency equipment are combined into a single interface (touch screen control head) in the vehicle's interior compartment. CPVE uses a mobile platform for radio interoperability with other first responder agencies such as law enforcement and fire departments.

The RFP was released to the vendor community on September 24, 2007. Draft proposals were received in December and confidential discussions with vendors were held in January 2008. A second round of draft proposals were received in March 2008, which will be followed by a second set of confidential discussions in April 2008. Final proposals are due in May 2008 and will be followed by demonstrations. Contract award is anticipated by June 2008.

Development of Radio Operational and Technical Specifications

In fiscal year 2006/2007 mobile and portable radio equipment was purchased for implementation in the CPVE solution, as well as to provide CHP officers with a new portable radio in the 700 MHz band. Mobile radios were also purchased in the low band, high band, UHF, 700/800 MHz and 800 MHz radio band. In addition, portable radios were purchased in the 700/800 MHz band to use with the CPVE. All radio purchases have been awarded and are currently under compliance testing by DGS/TD. Award of the radio purchases are not valid until radios have passed the compliance testing phase. To date, the high band and 700/800 MHz

mobile radios have successfully passed compliance testing. CHP is scheduled to accept delivery of 6,350 high band and 624 mobile radios in the second quarter of 2008.

In the fourth quarter of 2007, operational specifications and purchases were submitted for the CHPERS project infrastructure radio equipment. Currently DGS/TD is providing technical specifications based on the operational requirements submitted by the CHP. The technical specifications will be completed in the first quarter of 2008 and will be submitted to DGS procurement in the second quarter of 2008.

EFFECT ON EXISTING LAW:

N/A

ESTIMATED COST:

Projected expenditures for the CHPERS project for the 2007/2008 fiscal year will include: \$85,508,282 for equipment; \$4,743,000 for equipment installation, \$2,754,000 for DGS engineering and technical services costs; \$500,000 on consulting services; and \$542,093 on personnel costs; for a total of \$94,047,375 in expenditures. The Department's total allocation this fiscal year is \$97,712,943.

RECOMMENDATION(S):

N/A

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SUBJECT: QUARTERLY CALIFORNIA HIGHWAY PATROL ENHANCED RADIO SYSTEM (CHPERS) STATUS REPORT

APPROVED:

U. A. FARROWS

J. A. FARROW

Commissioner

California Highway Patrol

DALE E. BONNER

Secretary

Business, Transportation and

Housing Agency

4/17/08

Date

Date



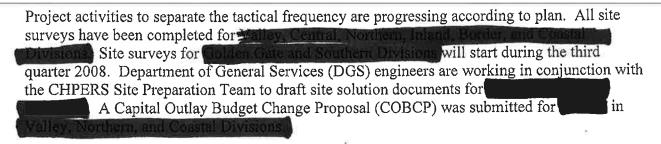
ISSUE MEMORANDUM

TO:	DALE E. BONNER,	Secre	ary		
FROM: J. A. FARROW, Com California Highway F Phone: (916) 657-71 Email: jfarrow@chp.		atrol 52 Fa	x: (916) 657-7324		
PREPARED BY:	K. P. GREEN, Assistant Commissioner, Staff California Highway Patrol Phone: (916) 657-7194 Fax: (916) 657-7324 Email: kgreen@chp.ca.gov				
DATE:	July 14, 2008				
SUBJECT:	QUARTERLY CALIFORNIA HIGHWAY PATROL ENHANCED RADIO SYSTEM (CHPERS) STATUS REPORT				
Check all applicable	boxes:				
Request for Appro	oval		Non-Competitively Bid Contract Justification		
Request for Secre	tary's Signature		Other Procurement-Related Document ¹		
Submittal for Seco	etary's Information		Feasibility Study Report/Special Project Report		
Request for Discu	ssion		Rulemaking/Regulation Document		
Response to Secre	tary's/Agency Request		Audit/Investigation-Related Document		
AGENCY REFERE	AGENCY REFERENCE NUMBER: 2008 IM 0247				
TIME FACTOR:					
N/A					

¹ Either: (1) Notice of Contract to Award.
(2) CMAS contract, MSA contract or Purchase Order exceeding departmental delegated authority.

SUMMARY:

The California Highway Patrol Enhanced Radio System (CHPERS) project will provide for the development and implementation of a statewide radio communications system which will support the CHP's primary mission, as well as provide an improved state-of-the-art radio system vital for officer safety and the public safety needs of the citizens of California. This quarterly report will address the current status of the CHPERS project for the quarter ending June 2008.



The Consolidated Patrol Vehicle Environment (CPVE) Request For Proposal (RFP) was released to the vendor community on September 24, 2007. Two rounds of draft proposals were received and confidential discussions were held with vendors. The final proposals were received and scored, with an estimated award date of July 9, 2008.

CHPERS Project Scheduled Meetings

During this quarter, meetings have continued with the CHP, DGS/Telecommunications Division (TD), and DGS/Real Estate Services Division (RESD) to discuss statewide remote site evaluations and potential frequency acquisitions for the CHP. In addition, the CHPERS Site Preparation Team has been meeting with DGS engineers to draft individual site solution documents for the CHPERS Division sites.

Risk Assessment and Mitigation Consultant

The Risk Assessment and Mitigation (RAM) consultant provides assistance with the development and implementation of the statewide radio system for CHPERS, the CPVE, and Radio Communications Interoperability Project. The consultant also evaluates and ensures the project meets implementation goals including, but not limited to: the accuracy in the estimation; design; construction; execution; and management of the plan. Currently, the RAM consultant has been evaluating the project and prioritizing mitigation measures for identified risks.

Multiple Radio Systems Project Manager Consultant (MRS PM)

The MRS PM continues to provide project management expertise according to the standard methodology of the Project Management Institution. The project manager is also responsible for quarterly reporting and deliverable tracking.

Radio Vault Site Evaluations and Development

The DGS engineers are in the process	ess of drafting site plans for the 34 Valley and Central Division
sites while CHPERS team member	s complete necessary site preparation activities. As soon as the site
plans for the Valley and Central Di	wision sites have been completed, DGS engineers will begin to
draft plans for the 60 Northern and	Coastal Division sites

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To date, a total of the three Divisions have been identified as requiring major reconstruction. A COBCP was submitted for sites in the latey Northern and Coastal

Project Resources

CHP has been working with DGS/TD and DGS/RESD to perform the CHPERS project activities. Due to the large scope of the CHPERS project, DGS does not have sufficient resources to address project activities. CHP along with DGS/TD and DGS/RESD are exploring the possibility of contracting for services to meet project time lines. CHP will be working with DGS Procurement Division to obtain the necessary contracted services.

Consolidated Patrol Vehicle Environment

The CPVE is a cost effective solution to improve the efficiency, effectiveness, and safety of the patrol officer's vehicle work environment. The project is a vehicle tactical network designed to consolidate multiple mobile radios in the trunk of the patrol vehicle, whereby all radios and emergency equipment are combined into a single interface (touch screen control head) in the vehicle's interior compartment. CPVE uses a mobile platform for radio interoperability with other first responder agencies such as law enforcement and fire departments.

The RFP was released to the vendor community on September 24, 2007. Draft proposals were received in December and confidential discussions with vendors were held in January 2008. A second round of draft proposals were received in March 2008, which was followed by a second set of confidential discussions in April 2008. Final proposals were received in May 2008 and were followed by demonstrations. Proposals have been evaluated and scored. Contract award is anticipated on July 9, 2008.

Development of Radio Operational and Technical Specifications

In fiscal year 2006/07 mobile and portable radio equipment was purchased for implementation in the CPVE solution, as well as provide CHP officers with a new portable radio in the 700/800 MHz band. Mobile radios were also purchased in the VHF low band, VHF high band, UHF, and 700/800 MHz band. In addition, portable radios were purchased in the 700/800 MHz band to use with the CPVE. All radio purchases have been awarded and are currently under compliance testing, or have passed compliance testing, by DGS/TD. Award of the radio purchases are not valid until radios have passed the compliance testing phase. To date, the VHF high band, UHF, and 700/800 MHz mobile radios have successfully passed compliance testing. CHP is

scheduled to accept delivery of the remaining 6,350 VHF high band, 4,400 UHF, and 624 700/800 MHz mobile radios in the third quarter of 2008. Additionally, initial shipment of 7,390 700/800 MHz portable radios will begin to arrive in the third quarter 2008.

In the fourth quarter of 2007, operational specifications and purchases were submitted for the CHPERS project infrastructure radio equipment. Currently DGS/TD is providing technical specifications based on the operational requirements submitted by the CHP. The technical specifications were completed in the second quarter of 2008 and will be submitted to DGS procurement in the third quarter of 2008.

EFFECT ON EXISTING LAW:

N/A

ESTIMATED COST:

Projected expenditures for the CHPERS project for the 2007/08 fiscal year will include: \$85,508,282 for equipment; \$4,743,000 for equipment installation, \$2,754,000 for DGS engineering and technical services costs; \$500,000 for consulting services; and \$542,093 for personnel costs; for a total of \$94,047,375 in expenditures. The Department's total allocation for the 2007/08 fiscal year is \$97,712,943.

RECOMMENDATION(S):

SUBJECT: QUARTERLY CALIFORNIA HIGHWAY PATROL ENHANCED RADIO SYSTEM (CHPERS) STATUS REPORT

APPROVED:

TA FARROW

Commissioner

California Highway Patrol

7-12.08

Date

DALEÆ. BONNER

Secretary

Business, Transportation and

Housing Agency





ISSUE MEMORANDUM

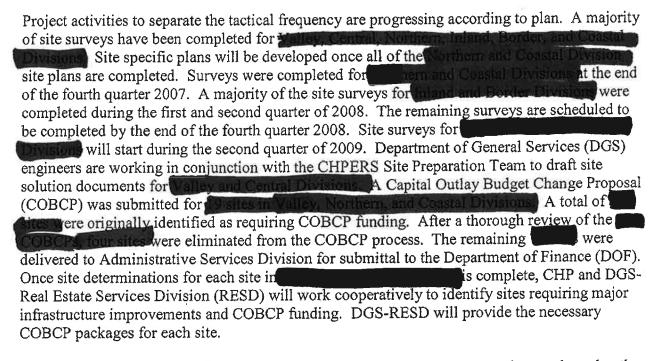
TO:	DALE E. BONNER, Se	ecreta	ary	
FROM: J. A. FARROW, Commissioner California Highway Patrol Phone: (916) 657-7152 Fax: (916) 657-7324 Email: jfarrow@chp.ca.gov PREPARED BY: K. P. GREEN, Assistant Commissioner, Staff California Highway Patrol Phone: (916) 657-7194 Fax: (916) 657-7324 Email: kgreen@chp.ca.gov				
DATE:	October 23, 2008	3	*	
SUBJECT:	THE OTHER DESIGNATION OF THE OTHER OF THE OTHER OF THE OTHER			
Check all applicable	boxes:			
Request for Appro			Non-Competitively Bid Contract Justification	
Request for Secret			Other Procurement-Related Document ¹	
Submittal for Secr	etary's Information		Feasibility Study Report/Special Project Report	
Request for Discus	ssion		Rulemaking/Regulation Document	
Response to Secre	tary's/Agency Request		Audit/Investigation-Related Document	
AGENCY REFERE	NCE NUMBER:	974.		
TIME FACTOR:				
N/A.				

¹ Either: (1) Notice of Contract to Award.

⁽²⁾ CMAS contract, MSA contract or Purchase Order exceeding departmental delegated authority.

SUMMARY:

The California Highway Patrol Enhanced Radio System (CHPERS) project will provide for the development and implementation of a statewide radio communications system. This project will support the California Highway Patrol's (CHP) primary mission, as well as provide an improved state-of-the-art radio system vital for officer safety and the public safety needs of the citizens of California. This quarterly report will address the current status of the CHPERS project for the quarter ending September 2008.



The Consolidated Patrol Vehicle Environment (CPVE) Request For Proposal was released to the vendor community on September 24, 2007. Two rounds of draft proposals were received and confidential discussions were held with vendors. The Notice of Intent to Award for the CPVE procurement was posted on July 9, 2008.

CHPERS Project Scheduled Meetings

During this quarter, meetings have continued with the CHP, DGS-Telecommunications Division (TD), and DGS-RESD to discuss statewide remote site evaluations and potential frequency acquisitions for the CHP. In addition, the CHPERS Site Preparation Team has been meeting with DGS engineers to draft individual site solution documents for sites. Site solution documents have been completed for the complete during the third quarter of 2008.

Risk Assessment and Mitigation Consultant (RAM)

The RAM consultant provides assistance with the development and implementation of the statewide radio system for CHPERS, the CPVE, and Radio Communications Interoperability Project. The consultant also evaluates and ensures the project meets implementation goals including, but not limited to: the accuracy in the estimation; design; construction; execution; and management of the plan. Currently, the RAM consultant has been evaluating the project and prioritizing mitigation measures for identified risks and reports monthly to CHP's Information Management Division.

Multiple Radio Systems Project Manager Consultant (MRS PM)

The MRS PM continues to provide project management expertise according to the standard methodology of the Project Management Institution. The project manager is also responsible for quarterly reporting and deliverable tracking.

Radio Vault Site Evaluations and Development

	In the fourth quarter of 2007, DGS-TD engineers were assigned the task of designing the site-
	specific plans. DGS-TD has provided CHPERS with plans for Central and valley
9	Thivisions and all 66 site plans for Northern and Coastal Divisions. Follow-up site visits by
	DGS-RESD for the preparation of budget packages for sites identified as requiring major
	infrastructure improvements have been completed for the sites assessed in the sites as a site of the sites as a site of the
1	Coastal and Northern Divisions: As previously stated, a total of Using were originally
	identified as requiring COBCP funding. After a thorough review of the
	were eliminated from the COBCP process. The remaining will be submitted to the DOF.
	Once site determinations for each site in many and Border Divisions are complete, CHP and
	will work cooperatively to identify sites requiring major infrastructure improvements and
	COBCP funding. DGS-RESD will provide the necessary COBCP packages for each site.

Project Resources

The Department has been working with DGS-TD and DGS-RESD to perform the CHPERS project activities. Due to the large scope of the CHPERS project and the impact it is having on some deliverables, CHP is concerned that DGS may not have sufficient resources to address project activities. CHP along with DGS-TD and DGS-RESD are exploring possibilities of contracting for services to meet project time lines. CHP will work cooperatively with DGS to assess the need and appropriateness of contracted services should those services become necessary.

Consolidated Patrol Vehicle Environment

The CPVE is a cost effective solution to improve the efficiency, effectiveness, and safety of the patrol officer's vehicle work environment. The project is a vehicle tactical network designed to consolidate multiple mobile radios in the trunk of the patrol vehicle, whereby all radios and emergency equipment are combined into a single interface (touch screen control head) in the

vehicle's interior compartment. CPVE uses a mobile platform for radio interoperability with other first responder agencies such as law enforcement and fire departments.

The Notice of Intent to Award for the CPVE procurement was posted on July 9, 2008. Two vendors (L3 Display Systems and Rockwell Collins) competitively bid for the CPVE procurement; Rockwell Collins was the chosen vendor. L3 Display Systems filed a protest on July 30, 2008. An arbitration hearing was held on September 10 and 11, 2008. On October 2, 2008, the Administrative Law Judge reviewing the protest denied L3 Display Systems' argument and ruled in favor of the state. DGS-Procurement Division (PD) is in the process of awarding the contract to Rockwell Collins. The award date is forthcoming. CHP will meet with the vendor for a pre-construction conference within 30 days of the contract award date. Field test units are expected to be deployed in the second quarter of 2009. A comprehensive field test plan is being developed by the CHPERS unit.

Development of Radio Operational and Technical Specifications

In fiscal year 2006/2007 mobile and portable radio equipment was purchased for implementation in the CPVE solution, as well as to provide CHP officers with a new portable radio in the 700/800 MHz band. Mobile radios were also purchased in the VHF low band, VHF high band, UHF, and 700/800 MHz band. All radio purchases have been awarded and are currently under compliance testing, or have passed compliance testing, by DGS-TD. Award of the radio purchases are not valid until radios have passed the compliance testing phase. To date, the VHF high band, UHF, and 700/800 MHz mobile radios have successfully passed compliance testing. The 700/800 MHz portable radios have successfully passed compliance testing. CHP has received the remaining 6,350 VHF high band, 4,400 UHF, and 624 700/800 MHz mobile radios during the third quarter of 2008. Additionally, the initial shipment of 7,390 700/800 MHz portable radios will begin to arrive during the fourth quarter 2008.

In the fourth quarter of 2007, operational specifications and purchases were submitted for the CHPERS project infrastructure radio equipment. Currently DGS-TD is providing technical specifications based on the operational requirements submitted by the CHP. The technical specifications were completed in the second quarter of 2008 and will be submitted to DGS-PD in the third quarter of 2008.

Based on the CHP's operational requirements, DGS-TD completed the technical specifications for the radio system infrastructure equipment. The technical specifications will provide improved state-of-the-art radio equipment that will meet both operational and inter-operational requirements. The equipment includes base station and fixed receiver equipment in the VHF low band, VHF high band, UHF, 700/800 MHz, and various sub-radio system equipment.

Contracts have been awarded as listed below:

Radio Infrastructure Equipment				
EQUIPMENT	MANUFACTURER	ER VENDOR		
VHF Low Band Base Station	Midland	Comtronix of Hemet		
VHF Low Band Receiver	Midland	Comtronix of Hemet		
VHF Low Band Desktop Base Station	Midland	Comtronix of Hemet		
UHF Band Base Station	Midland	Comtronix of Hemet		
UHF Band Receiver	Midland	Comtronix of Hemet		
VHF High Band Base Station	Midland	Comtronix of Hemet		
VHF High Band Mobile Relay	Daniels Electronics	Daniels Electronics		
700/800 MHz Base Station	TAIT	Comtech Communications		

All of these products are scheduled for compliance testing at DGS-TD.

EFFECT ON EXISTING LAW:

ESTIMATED COST:

DGS-PD finalized purchase contracts for infrastructure equipment in September 2008. Revised projected expenditures for the CHPERS project for the 2007/2008 fiscal year will include: \$83,723,540 for equipment; \$68,991 for equipment installation by DGS, \$2,400,095 for DGS engineering and technical services costs; \$500,000 on consulting services; and \$542,093 for personnel costs; for a total of \$87,264,313 in expenditures. The Department's total expenditures were less than the allocation for this fiscal year which resulted in \$10,448,630 being reverted as outlined below:

	EQUIPMENT	DGS SERVICES	CONSULTANTS	PERSONNEL (10 PY's)	TOTAL
Allocation	\$85,930,250.00	\$10,740,600	\$500,000	\$542,093	\$97,712,943
Expenditures					
CPVE	\$54,521,376.09				
Mobiles	\$1,942,542.87				
Portables	\$3,968,787.68				
Remote Site Equipment	\$23,290,833.69				
Transferred to ARF	\$29,593.54				
Year to Date Expenditures		\$2,469,086	\$500,000	\$542,093	\$3,511,179
Projected Expenditures	\$83,753,134	\$0	\$0	\$0	\$83,753,134
Balance for 2007/2008	\$2,177,116	\$8,271,514	\$0	\$0	\$10,448,630

RECOMMENDATION(S):